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国際調査報告書

(54) TIE: DEVICE AND METHOD FOR COHERENT-TRACKING OF CDMA RECEIVER

(54) 発明の名称 CDMA受信機のコヒーレントトラッキング装置および方法

103, 104, 203, 204 ... integrating and dumping

... autometic frequency controlling circuit

300 ... spreading code replice generator

110 ... information symbol delaying section

120 ... pilot symbol phase erro

extracting/everaging section 130 ... information symbol phase error estimating

132 ... information symbol phase compensating

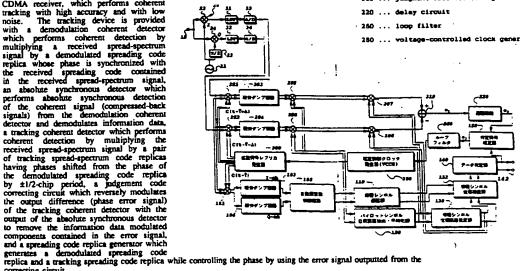
140 ... data identifying section

150 ... judgment code correcting section

280 ... voltage-controlled clock generator (VCCG)

(57) Abstract

A coherent-tracking device of a CDMA receiver, which performs coherent tracking with high accuracy and with low noise. The tracking device is provided with a demodulation coherent detector which performs coherent detection by with a demodulation coherent detector which performs coherent detection by multiplying a received spread-spectrum signal by a demodulated spreading code replica whose phase is synchronized with the received spreading code contained in the received spread-spectrum signal, an absolute synchronous detection which performs absolute synchronous detection of the coherent signal (compressed-heef of the coherent signal (compressed-back signals) from the demodulation coherent detector and demodulates information data, detector and demodulates information data, a tracking coherent detector which performs coherent detection by multiplying the received spread-spectrum signal by a pair of tracking spread-spectrum code replicas having phases shifted from the phase of the demodulated spreading code replica by ±1/2-chip period, a judgement code correcting circuit which reversely modulates the control difference (where every signal)



correcting circuit.

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